13. Idaho, 10. Indiana, 22. Iowa, 6. Kansas, 21. Kentucky, 14. Maryland, 3. Missouri, 7, 8, 14, 17, 20, 21, 22. Nebraska, 30. New Mexico, 18. New York, 5, 12. Ohio, 16. Oklahoma, 17. Oregon, 10, 29. Pennsylvania, 3. Tennessee, 14. Texas, 18. Utah, 16. Washington, 21. Wisconsin, 10.

SLEET.

The following are the dates on which sleet fell in the respective States:

Arkansas, 2. Colorado, 10, 15, 19. Connecticut, 11. Idaho, 12, 29. Indiana, 2, 3, 29. Iowa, 11, 30. Maine, 4, 15, 22. Maryland, 3, 13, 14, 28. Massachusetts, 4, 11, 12, 15, 22. Michigan, 3, 13, 29, 30. Minnesota, 9, 10, 30. Mississippi, 3. Montana, 19, 27. Nebraska, 30. New Hampshire, 10, 11, 15, 21, 22. New Jersey, 14, 15. New Mexico, 15, 20. New York, 11, 14, 15, 21. North Dakota, 10, 12. Ohio, 2, 3, 4, 10, 23, 28. Oklahoma, 25. Pennsylvania, 3, 4, 11, 14, 15. Tennessee, 1, 2, 3, 7, 13. Texas, 1. Utah, 15, 17, 22, 30. Vermont, 11, 22. Washington, 16, 30. Wisconsin, 2, 10, 12, 22. Wyoming, 15, 19.

HUMIDITY.

Average relative humidity and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
	%			%	
New England	76	− 2	Missouri Valley	73	+ 2
Middle Atlantic	77	+ 1	Northern Slope	68	+ 2
South Atlantic	80	+ 1	Middle Slope	66	+ 4
Florida Peninsula	78	− 3	Southern Slope	74	+13
East Gulf	72	− 5	Southern Plateau	44	− 2
West Gulf	75	+ 2	Middle Plateau	56	+ 2
Ohio Valley and Tennessee	76	+ 3	Northern Plateau	75	+ 2
Lower Lake	78	+ 2	North Pacific Coast	87	0
Upper Lake	83	+ 3	Middle Pacific Coast	85	+12
North Dakota	79	0	South Pacific Coast	78	+11
Upper Mississippi	77	+ 3			

WIND.

The maximum wind velocity at each Weather Bureau station for a period of five minutes is given in Table I, which also gives the altitude of Weather Bureau anemometers above ground.

Following are the velocities of 50 miles and over per hour registered during the month:

Maximum wind velocities.

Stations.	Date.	Velocity.	Direction.	Stations.	Date.	Velocity.	Direction.
Carson City, Nev	29	60	sw.	Fort Canby, Wash	29	56	se.
Denver, Colo	29	51	nw.	Do	30	70	se.
Fort Canby, Wash	10	62	se.	Havre, Mont	28	52	sw.
Do	13	54	se.	Mount Tamalpais, Cal	21	53	w.
Do	17	56	se.	Do	29	56	w.
Do	18	72	se.	New York, N. Y	12	56	nw.
Do	20	60	se.	Winnemucca, Nev	29	75	w.
Do	27	57	se.				

SUNSHINE AND CLOUDINESS.

The month was unusually free from clouds, except over the Lake region, northern New England and the States of Idaho, Oregon, Washington, and northern California.

The distribution of sunshine is graphically shown on Chart VII, and the numerical values of average daylight cloudiness, both for individual stations and by geographical districts, appear in Table I.

Average cloudiness and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	5.9	+0.3	Missouri Valley	5.4	+0.5
Middle Atlantic	4.8	−0.4	Northern Slope	4.4	−0.2
South Atlantic	3.9	−0.6	Middle Slope	4.6	+1.0
Florida Peninsula	4.7	+0.1	Southern Slope	4.2	+1.0
East Gulf	4.6	+0.1	Southern Plateau	2.6	+0.3
West Gulf	4.6	0.0	Middle Plateau	4.9	+1.3
Ohio Valley and Tennessee	6.0	+0.3	Northern Plateau	7.0	+1.0
Lower Lake	7.6	+0.4	North Pacific Coast	8.7	+1.9
Upper Lake	6.9	−0.1	Middle Pacific Coast	7.0	+3.0
North Dakota	4.0	−1.3	South Pacific Coast	5.3	+2.4
Upper Mississippi	5.8	+0.5			

ATMOSPHERIC ELECTRICITY.

Numerical statistics relative to auroras and thunderstorms are given in Table VII, which shows the number of stations from which meteorological reports were received, and the number of such stations reporting thunderstorms (T) and auroras (A) in each State and on each day of the month, respectively.

Thunderstorms.—Reports of 661 thunderstorms were received during the current month as against 619 in 1898 and 732 during the preceding month.

The dates on which the number of reports of thunderstorms for the whole country were most numerous were: 14th, 111; 13th, 93; 21st, 61; 17th, 56.

Reports were most numerous from: Missouri, 123; Illinois, 86; Arkansas, 46; Kansas, 40.

Auroras.—The evenings on which bright moonlight must have interfered with observations of faint auroras are assumed to be the four preceding and following the date of full moon, viz, 12th to 20th.

The greatest number of reports were received for the following dates: 16th, 4; 2d, 25th, 29th, 2.

Reports were most numerous from: Ohio, 5; Montana and North Dakota, 3.

In Canada.—Auroras were reported as follows: Father Point, 3d, 6th, 23d, 29th, 30th; Minnedosa, 4th, 6th, 30th; Swift Current, 13th, 25th, 29th; Prince Albert, 4th, 25th, 27th; Battleford, 4th.

Thunderstorms were reported as follows: Yarmouth, 12th; Bermuda, 5th.

WEATHER IN THE WEST INDIES.

The distribution of pressure, temperature, and the direction of the resultant winds in the West Indies are shown on Chart IX. The numerical values of pressure, temperature, etc., for West Indian stations will be found in Tables I, II, III, IV, V, VI, VIII, IX, and X.

The climate and crop services of Cuba and Puerto Rico publish statistics of temperature and rainfall for a somewhat larger number of stations than is given at the end of Table II.

DESCRIPTION OF TABLES AND CHARTS.

By ALFRED J. HENRY, Chief of Division of Meteorological Records.

For description of tables and charts see page 424 of REVIEW for September, 1899.